

RECEIVED BY THE BUREAU

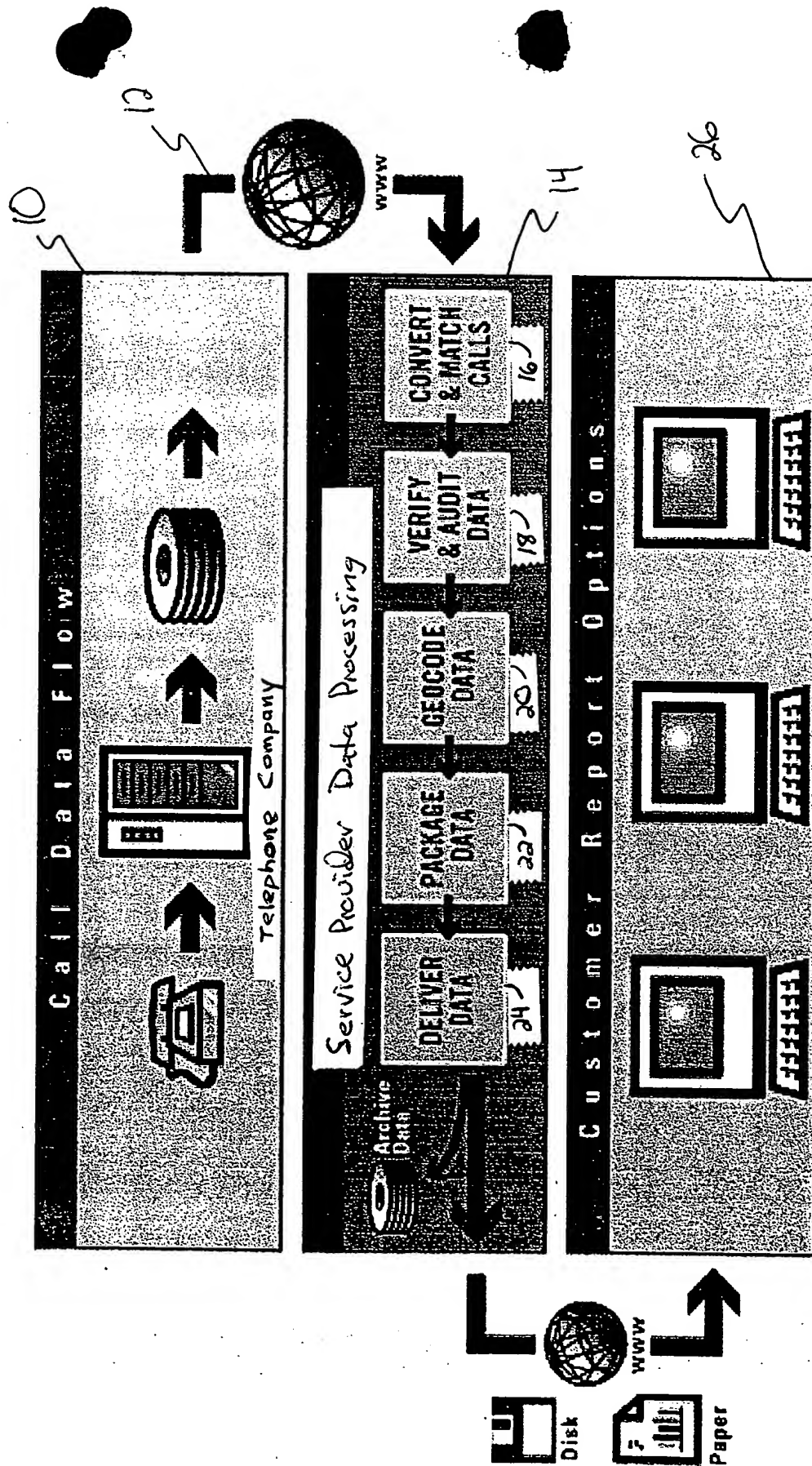


Figure 1

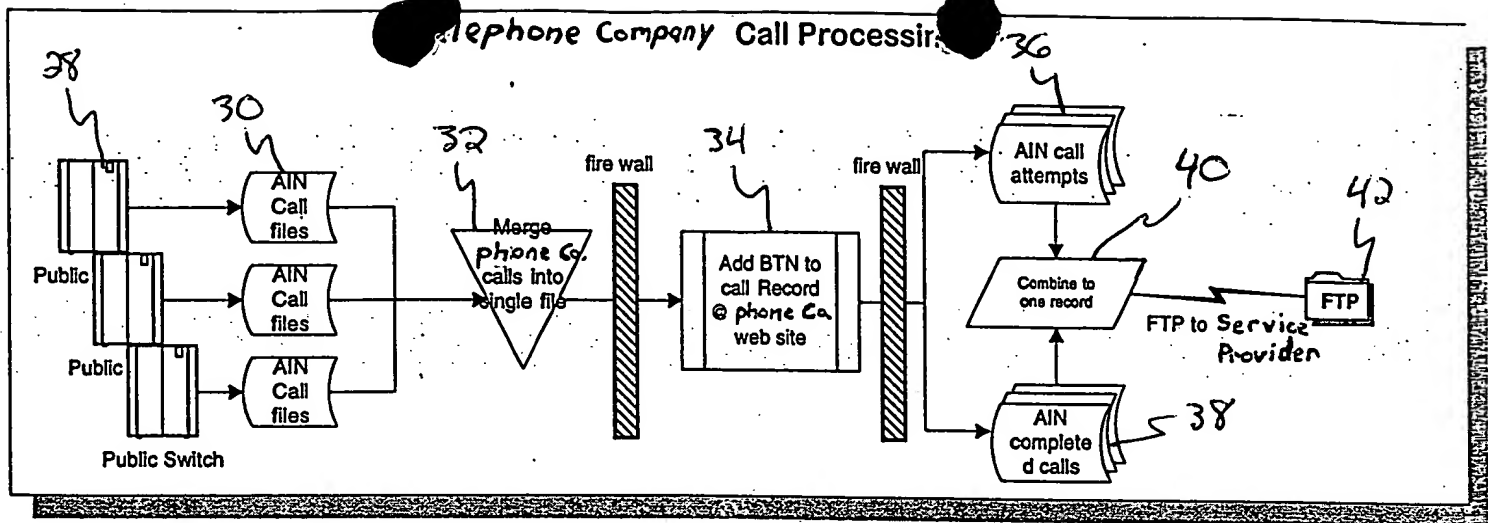


Fig. 2

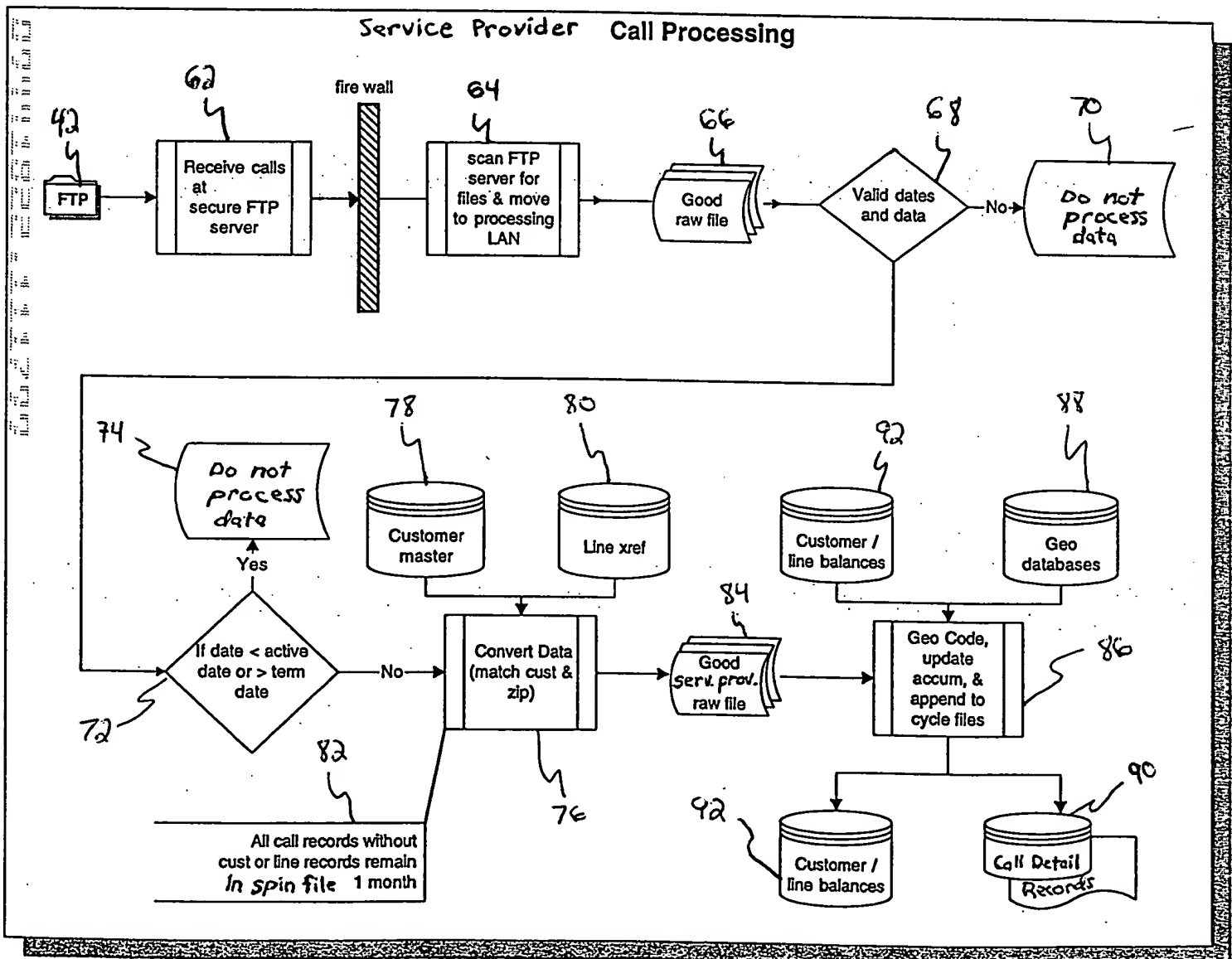


Fig. 4



# Cycle Processing

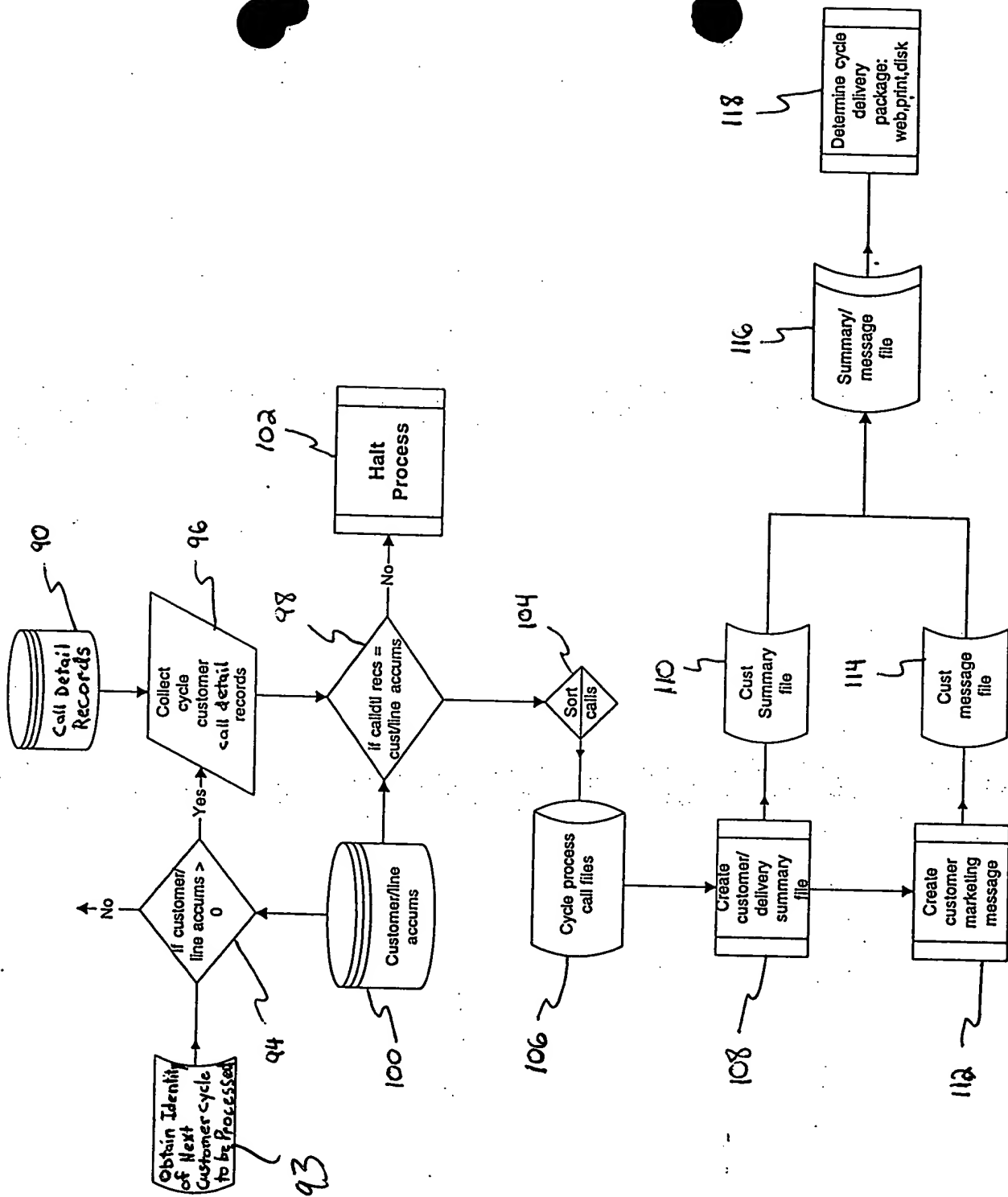


Fig. 5

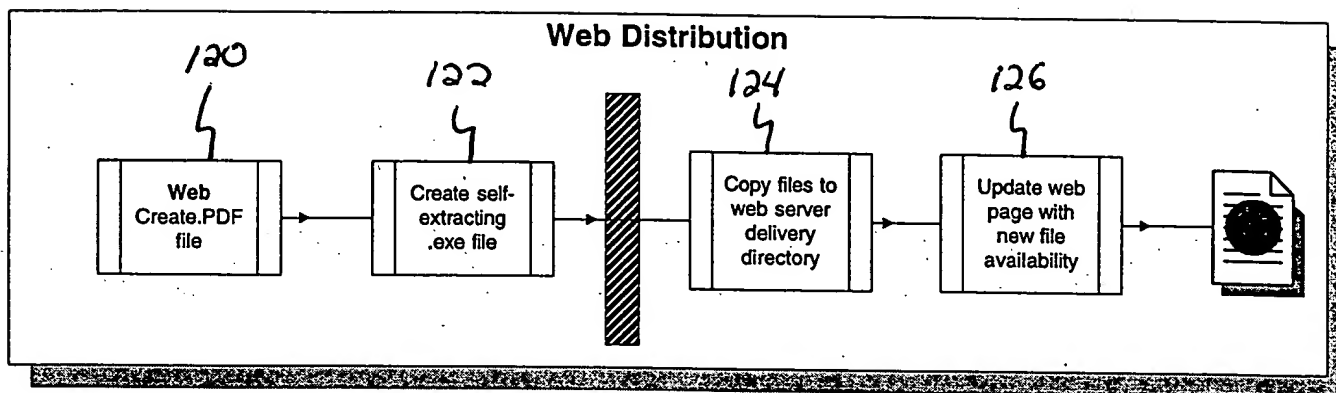


Fig. 6

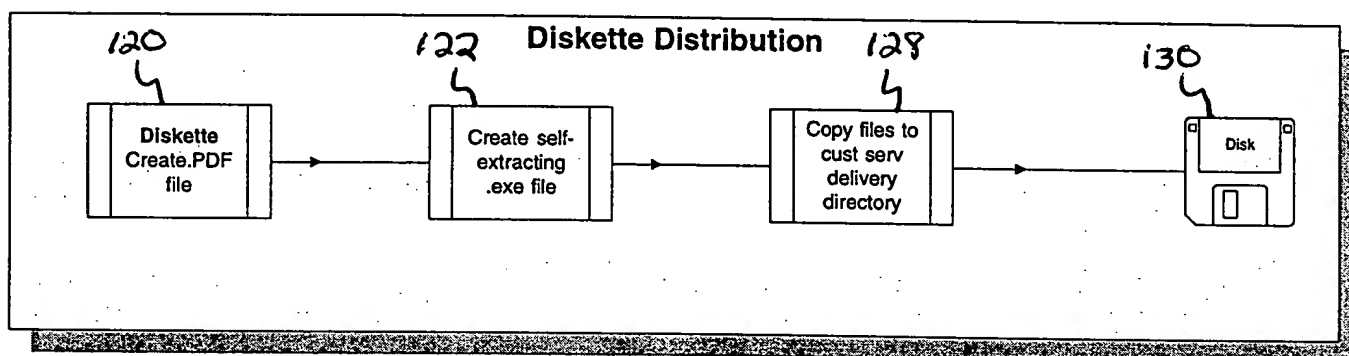


Fig. 7

FILE_ID	CDATE	CTIME	DN	CPN	CALL_TYPE	CALL_DISP	CALL_STAT	CALL_DUR	XACTION	CPN_NAME	POSTALCODE	LONGITUDE	LATITUDE	Q_BYTES	MISC
132	8/22/98	04:18:15 PM	5135551212	9375787400	I	2	0	0		unavailable		-84.193714	39.759868	S	
134	8/22/98	04:18:36 PM	5135551212	8122562495	I	0	1	260		unavailable		-85.384117	38.733633	S	
136	8/22/98	04:32:30 PM	5135551212	7405458420	I	0	1	200		unavailable		-82.961757	40.232652	S	
138	8/22/98	06:39:51 PM	5135551212	1111111111	I	0	1	360		unavailable		0.000000	0.000000	U	
140	8/23/98	08:55:34 AM	5135551212	5555555555	I	0	1	2730		unavailable		0.000000	0.000000	U	
142	8/23/98	09:09:07 AM	5135551212	1111111111	O	0	1	240		unavailable		0.000000	0.000000	U	
144	8/23/98	09:52:46 AM	5135551212	1111111111	I	1	0	0		unavailable		0.000000	0.000000	U	
146	8/23/98	12:22:41 PM	5135551212	1111111111	I	0	1	230		unavailable		0.000000	0.000000	U	
148	8/23/98	12:48:28 PM	5135551212	5133901888	I	0	1	110		unavailable		-84.519930	39.102459	S	
150	8/23/98	01:41:09 PM	5135551212	6066207160	I	0	1	220		unavailable		-84.519930	39.102459	S	
152	8/23/98	01:53:10 PM	5135551212	9378565488	I	0	1	100		unavailable		-84.364952	39.623529	S	
154	8/23/98	02:17:51 PM	5135551212	1111111111	I	2	0	0		unavailable		0.000000	0.000000	U	
156	8/23/98	03:32:58 PM	5135551212	1111111111	I	0	1	50		unavailable		0.000000	0.000000	U	
	8/23/98	03:47:34 PM	5135551212	5136598931	I	3	0	0		unavailable		-84.519930	39.102459	S	
	8/23/98	05:30:56 PM	5135551212	7658471638	I	0	1	220		unavailable		-84.941571	40.049073	S	
	8/23/98	07:16:25 PM	5135551212	9372740967	I	0	1	70		unavailable		-84.225906	39.790287	S	
	8/23/98	11:09:44 PM	5135551212	1111111111	I	0	1	2720		unavailable		0.000000	0.000000	U	
	8/21/98	09:06:43 AM	5135551212	6066354067	O	0	1	50		unavailable	410019720	-84.419803	38.880692	A	
	8/20/98	09:17:34 AM	5135551212	6065895650	I	0	1	4400		unavailable	410058211	-84.722085	39.028344	A	
	8/19/98	08:33:35 AM	5135551212	6068697769	I	2	0	0		unavailable	410059751	-84.737297	39.075182	A	
	8/19/98	09:05:04 AM	5135551212	6066879769	I	0	1	2180		unavailable	410059751	-84.737297	39.075182	A	
	8/19/98	05:22:59 PM	5135551212	6066896779	I	0	1	2850		unavailable	410059751	-84.737297	39.075182	A	
	8/21/98	08:55:45 PM	5135551212	6066722444	I	0	1	280		unavailable	410069608	-84.369442	38.787168	A	
	8/17/98	11:59:37 AM	5135551212	6069218116	O	0	1	760		unavailable	410111135	-84.530487	39.082738	A	
	8/20/98	02:43:02 PM	5135551212	6062198116	I	0	1	3450		unavailable	410111135	-84.530487	39.082738	A	
	8/21/98	04:59:46 PM	5135551212	6062198116	I	1	0	0		unavailable	410111135	-84.530487	39.082738	A	
	8/18/98	10:21:30 AM	5135551212	6062916544	I	0	1	1610		unavailable	410111160	-84.529001	39.082483	A	
	8/19/98	09:26:36 AM	5135551212	6069214564	I	0	1	710		unavailable	410111160	-84.529001	39.082483	A	

Fig. 8

## Geocoding logic hierarchy

Criterion				Value
<u>CASE 1</u>				
IF	9 digit zip exists in zip field	& exists in ->	9 digit zip DB	A
	otherwise 9 digit zip (1st 5 digits)	exists in ->	5 digit zip DB	B
	otherwise 9 digit zip (1st 3 digits)	exists in ->	3 digit zip DB	C
	otherwise npanxx of calling # field	exists in ->	npanxx DB	D
	otherwise npa of calling # field	exists in ->	nap DB	E
	otherwise use special value indicating unknown origin			F
<u>CASE 2</u>				
otherwise, IF	6, 7, or 8 digit zip exists in zip field (bad data)			
	AND npanxx of calling # field	exists in ->	npanxx DB	G
	otherwise npa of calling # field	exists in ->	nap DB	H
	otherwise use special value indicating unknown origin			I
<u>CASE 3</u>				
otherwise, IF	5 digit zip exists in zip field	& exists in ->	5 digit zip DB	J
	otherwise 5 digit zip (1st 3 digits)	exists in ->	3 digit zip DB	K
	otherwise npanxx of calling # field	exists in ->	npanxx DB	L
	otherwise npa of calling # field	exists in ->	nap DB	M
	otherwise use special value indicating unknown origin			N
<u>CASE 4</u>				
otherwise, IF	< 5 digit zip exists in zip field (bad data)			
	AND npanxx of calling # field	exists in ->	npanxx DB	P
	otherwise npa of calling # field	exists in ->	nap DB	Q
	otherwise use special value indicating unknown origin			R
<u>CASE 5</u>				
otherwise, IF	0 or null exists in zip field (no zip)			
	AND npanxx of calling # field	exists in ->	npanxx DB	S
	otherwise npa of calling # field	exists in ->	nap DB	T
	otherwise use special value indicating unknown origin			U

Table 1

158

1602

162

166

164

176

**Report Selection : Demonstration Data Set**

**Quick Summary**

1116
Answered Calls
100
Abandoned Calls
85
Busy Calls
114
Other Calls
1415
TOTAL Calls

**Report Period**

Start Date: 08/10/98 End Date: 08/16/98 Days in Period: 7

**Change Dates**

**Report Set Selection**

Report Collection 10

Active Report Set

**Customize Report Set**

**View Reports**

**EXIT**

**EXIT**

Appendix A



August 1998						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30	31	1	2
3	4	5	6	7	8	9
<div> <div>4/10</div> <div>4/11</div> <div>4/12</div> <div>* ACTIVE *</div> <div>4/21</div> <div>4/25</div> <div>4/26</div> </div> <div>Available</div>						
17	18	19	20	21	22	23
<div>Available</div>						
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Appendix B

**Customize Report Sets**

Report Collection 10

Report Sets:

Reports in Set:

**Incoming & Outgoing**

**Weekly View** **Monthly View** **Callers/Areas** **Multi-Location** **Trends**

	Table	Graph	Map
<b>Summary</b>			
Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Call Totals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Usage</b>			
Call Duration Distribution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Call Duration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Average Call Duration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Call Types</b>			
Call Type By Day (weekly Total)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Call Type By Hour (daily Detail)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Call Type By Hour (weekly Total)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Answered Totals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Busy Totals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abandoned Totals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Totals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

168

172

174

170

Appendix C

October 26, 1998 - November 1, 1998

## New ZIP Codes

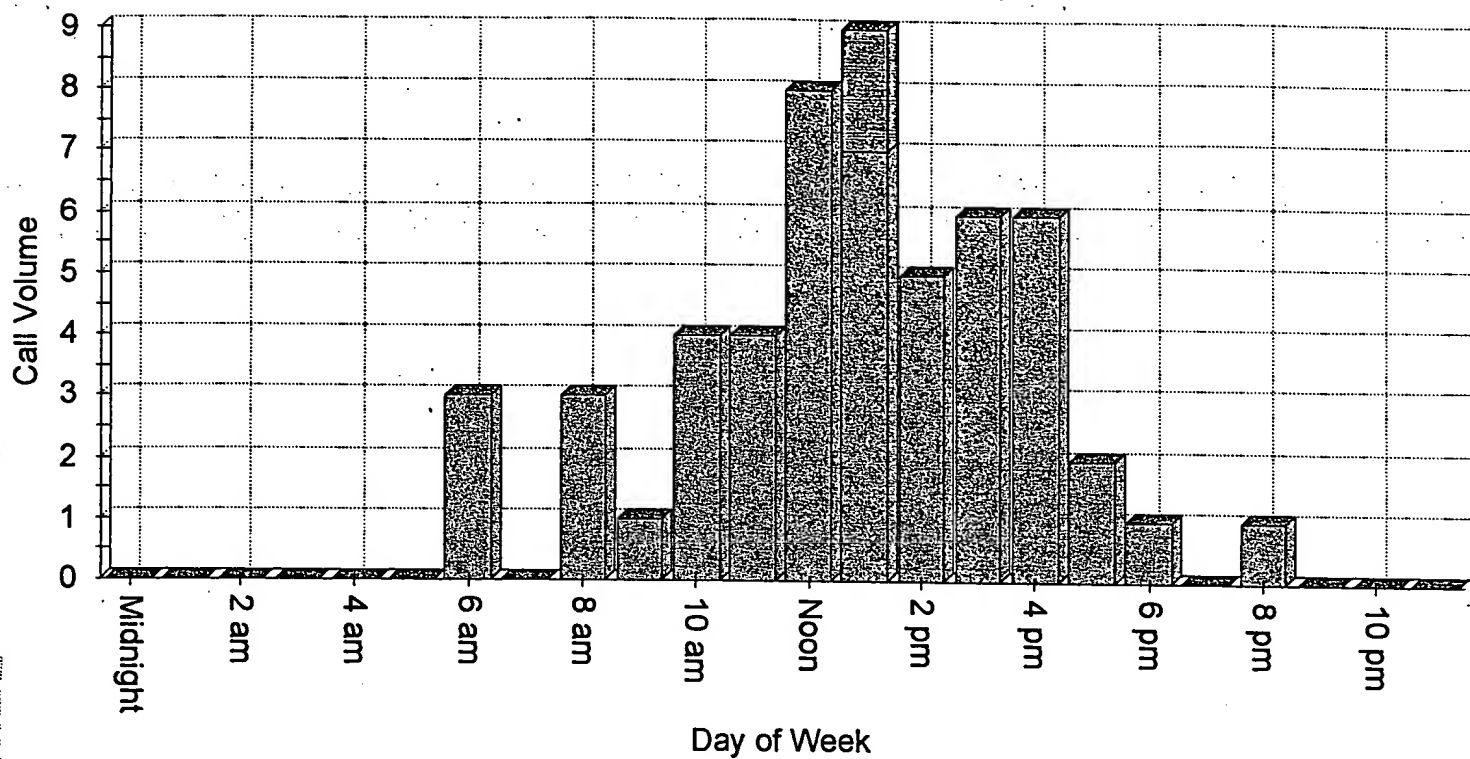
New ZIP codes discovered in the current date range ranked by answered call count.

Zip Code	State	Call Count	First Call Date & Time	Last Call Date & Time	Total Duration
55402	MN	11	10/26/98 11:07:00 AM	10/30/98 02:46:00 PM	0:27:40.0
55416	MN	11	10/26/98 12:11:00 PM	10/29/98 02:37:00 PM	0:11:25.0
84111	UT	6	10/26/98 09:56:00 AM	10/28/98 02:15:00 PM	0:31:12.0
55343	MN	6	10/26/98 01:38:00 PM	10/30/98 11:57:00 AM	0:14:28.0
56304	MN	5	10/26/98 06:43:00 PM	10/28/98 05:47:00 PM	0:44:51.0
85012	AZ	4	10/27/98 05:15:00 PM	10/29/98 05:48:00 PM	0:06:14.0
55347	MN	4	10/26/98 06:51:00 AM	10/28/98 02:43:00 PM	0:02:31.0
98191	WA	3	10/26/98 10:34:00 AM	10/29/98 06:09:00 PM	0:16:07.0
55104	MN	3	10/26/98 11:48:00 AM	10/27/98 11:30:00 AM	0:03:12.0
55415	MN	3	10/27/98 05:34:00 PM	10/30/98 01:03:00 PM	0:02:17.0
80132	CO	3	10/26/98 12:57:00 PM	10/26/98 02:57:00 PM	0:01:24.0
55425	MN	2	10/26/98 04:25:00 PM	10/28/98 03:56:00 PM	0:06:05.0
98188	WA	2	10/28/98 01:26:00 PM	10/28/98 01:29:00 PM	0:05:34.0
83204	ID	2	10/30/98 11:09:00 AM	10/30/98 11:09:00 AM	0:04:48.0
55431	MN	2	10/26/98 03:59:00 PM	10/30/98 09:44:00 AM	0:03:39.0
55124	MN	2	10/27/98 02:08:00 PM	10/27/98 02:10:00 PM	0:03:07.0
55364	MN	2	10/27/98 03:50:00 PM	10/27/98 03:50:00 PM	0:00:46.0
55437	MN	2	10/28/98 05:11:00 PM	10/29/98 03:25:00 PM	0:00:29.0
55305	MN	1	10/27/98 03:20:00 PM	10/27/98 03:20:00 PM	0:09:54.0
85283	AZ	1	10/28/98 05:44:00 PM	10/28/98 05:44:00 PM	0:07:33.0
85024	AZ	1	10/27/98 05:41:00 PM	10/27/98 05:41:00 PM	0:04:06.0
80202	CO	1	10/30/98 01:36:00 PM	10/30/98 01:36:00 PM	0:03:35.0
55118	MN	1	10/30/98 08:37:00 AM	10/30/98 08:37:00 AM	0:03:17.0
97401	OR	1	10/29/98 02:13:00 PM	10/29/98 02:13:00 PM	0:02:32.0
80206	CO	1	10/28/98 10:09:00 AM	10/28/98 10:09:00 AM	0:02:02.0
68144	NE	1	10/28/98 03:14:00 PM	10/28/98 03:14:00 PM	0:01:51.0
55391	MN	1	10/28/98 05:36:00 PM	10/28/98 05:36:00 PM	0:01:48.0
55011	MN	1	10/26/98 02:30:00 PM	10/26/98 02:30:00 PM	0:01:47.0
85255	AZ	1	10/27/98 05:55:00 PM	10/27/98 05:55:00 PM	0:01:22.0
99216	WA	1	10/30/98 11:29:00 AM	10/30/98 11:29:00 AM	0:01:11.0
97204	OR	1	10/26/98 02:08:00 PM	10/26/98 02:08:00 PM	0:00:57.0
55113	MN	1	10/26/98 03:59:00 PM	10/26/98 03:59:00 PM	0:00:43.0
68102	NE	1	10/26/98 12:05:00 PM	10/26/98 12:05:00 PM	0:00:41.0
98004	WA	1	10/30/98 03:32:00 PM	10/30/98 03:32:00 PM	0:00:41.0
55422	MN	1	10/26/98 11:12:00 AM	10/26/98 11:12:00 AM	0:00:20.0
55102	MN	1	10/27/98 11:47:00 AM	10/27/98 11:47:00 AM	0:00:07.0
55427	MN	1	10/26/98 04:09:00 PM	10/26/98 04:09:00 PM	0:00:06.0
55404	MN	1	10/26/98 04:26:00 PM	10/26/98 04:26:00 PM	0:00:05.0
55420	MN	1	10/26/98 10:05:00 AM	10/26/98 10:05:00 AM	0:00:03.0

Appendix D

# Call Type by Hour Monday, 10/26/98

ANSWERED  
BUSY  
UNANSWERED  
UNKNOWN



Appendix E

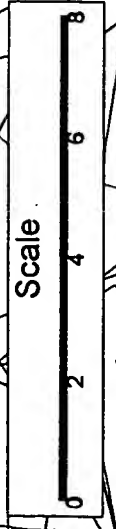
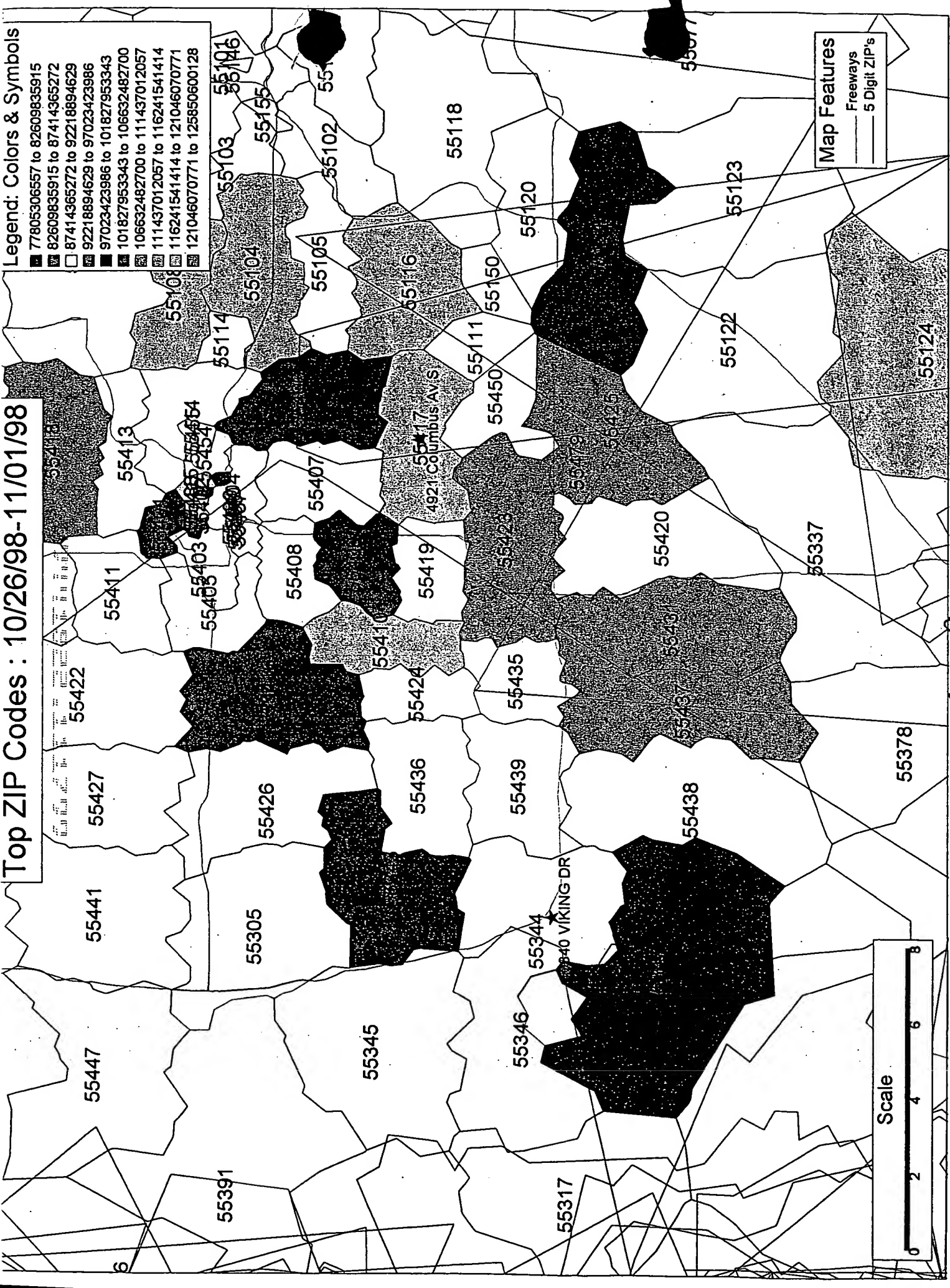
Top ZIP Codes : 10/26/98-11/01/98

Legend: Colors & Symbols

■	77805306557 to 82609835915
■	82609835915 to 87414365272
■	87414365272 to 92218894629
■	92218894629 to 97023423986
■	97023423986 to 101827953343
■	101827953343 to 106632482700
■	106632482700 to 111437012057
■	111437012057 to 116241541414
■	116241541414 to 121046070771
■	121046070771 to 125850600128

Map Features

—	Freeways
—	5 Digit ZIP's



# Total Incoming Calls : 10/26/98-11/01/98

